

OM of: US-09-805-550-2 to: N.Geneseq_032802:* out_format : pfs
Date: Aug 31, 2002 7:40 AM
About: Results were produced by the Gencore software, version 4.5,
Copyright (c) 1993-2000 Compugen Ltd.

Command line parameters:
-MODEL=frame+p2n.model -DEV=x1h
-O=/cgn2_1/USPRO.spool/US09805550/runal_29082002_160820_307/app-query.fasta_1.897
-DB=N.Geneseq_032802 -OFMT=fastq -SUFFIX=oligop2n.rng
-GAPOP=4.500 -GAPEXT=0.050 -MINMATCH=0.100 -LOOPEXT=0.000
-LOOPEXT=0.000 -GAPOP=4.500 -GAPEXT=0.050 -XGAPOP=60.000
-XGAPEXT=60.000 -FGAPOP=6.000 -FGAPEXT=7.000 -YGAPOP=60.000
-YGAEXT=60.000 -DELOP=6.000 -DELEXT=7.000 -START=1
-MATRIX=oligo -TRANS=human40.cdl -LIST=45 -DOCALLGN=200
-THR.SCORE=quality -THR.MIN=1 -ALIGN=15 -MODE=LOCAL -OUTFMT=pfs
-NORM=ext -HEARSIZE=500 -MINLEN=0 -MAXLEN=200000000
-USER=US09805550 -CGN1_1.0 -NCPY=6 -ICPY=3 -LONGLOG
-DEV.TIMEOUT=120 -WARN.TIMEOUT=30 -NO_XLPYX -WAIT -THREADS=1

Search Information block:
Query: US-09-805-550-2
Query Length: 405
Database: N.Geneseq_032802:*
Database Sequences: 1736436
Database Length: 858457221
Search time (sec): 297.440000

WARN: XGAPOP and YGAPOP must be equal. Assuming YGAPOP=XGAPOP=60.000
WARN: XGAPEXT and YGAPEXT must be equal. Assuming YGAPEXT=XGAPEXT=60.000

score_list:
Sequence Strid Orig ZScore EScore Len 1 Documentation
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:AAAD01230 + 405.00 6901.94 0.0 15
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:AAAC48229 + 21.00 333.71 3.1e-10 14
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:AAAC38717 + 21.00 333.69 3.1e-10 14
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:AAAC47900 + 18.00 281.76 2.4e-07 15
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:AAAC37705 + 18.00 281.75 2.4e-07 15
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:AAAC31521 + 13.00 204.99 0.0045 48
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:AAAC4960 + 13.00 200.72 0.0078 85
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:AAAD01231 + 13.00 195.52 0.0153 17
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT:AAK56240 - 10.00 154.43 2.97 4
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT:AAK56240 - 9.00 139.81 19.34 31
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:AAHL17109 + 9.00 132.17 51.56 8
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:AAHL25527 + 9.00 128.23 85.52 11
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT:AAH73004 + 9.00 127.87 89.55 11
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:AAK54336 - 9.00 124.82 132.30 2
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:AAK54336 - 9.00 123.83 150.18 2
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:AAK56267 - 9.00 122.98 164.49 2
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:AAHL7108 - 9.00 122.24 184.34 3
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:AAHL25526 - 9.00 119.78 252.55 4
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT:AAH52046 + 9.00 114.47 499.31 9
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT:AAI95682 + 9.00 68.30 1.8e+05 4
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT:AAH6317 - 8.00 138.05 24.25 4
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:AAH6317 - 8.00 132.24 51.12 87
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:AAH6317 - 8.00 126.67 104.33 1
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:AAH76835 + 8.00 125.43 122.32 2
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:AAZ17694 + 8.00 122.98 167.64 30
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:AAZ13741 + 8.00 122.98 167.64 30
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1996.DAT:AAZ13741 + 8.00 121.80 194.89 35
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1992.DAT:AAQ23883 + 8.00 121.78 195.42 35
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1993.DAT:AAQ45208 + 8.00 121.47 203.40 35
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:AAZ19390 + 8.00 121.47 203.40 36
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:AAZ19178 + 8.00 121.39 205.53 37
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:AAZ19171 + 8.00 121.39 205.53 37
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1997.DAT:AAV73321 + 8.00 121.05 214.56 38
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1997.DAT:AAV73321 + 8.00 120.98 216.68 39
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA1999.DAT:AAH89789 + 8.00 120.96 217.21 39
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT:AAH5831 + 8.00 119.46 263.15 4
/SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2001A.DAT:AAH93351 + 8.00 119.46 263.15 4

seq_name: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:AAAD01230
seq_documentation_block:
ID AAD01230 standard; CDNA; 1522 BP.
XX
XX AAD01230:
AC
XX
XX 04-OCT-2000 (first entry)
DT
XX
DE Maize Rad23 protein #1 encoding CDNA.
XX
KW Rad23; maize; ATCC No: PTA-530; recombinant expression cassette; wheat;
transgenic plant; soybean; sunflower; sorghum; canola; modulator; ss.
XX
XX Zea mays.
OS
XX
XX Key Location/Qualifiers
FT CDS 58..1275
/*tag= a
/product= "Maize Rad23 protein #1"
/note= "Contained in ATCC No: PTA-530"
FT
FT
XX
XX PN WC0200031268-A1.
XX
XX PD 02-JUN-2000.
XX
XX PF 12-OCT-1999; 99MO-US24129.
XX
XX PR 23-NOV-1998; 98US-0109728.
XX
XX (PION-) PIONEER HI-BRED INT INC.
XX
XX Mahajan PB, Tagliani L;
PI
XX WPI, 2000-400078/34.
XX
XX DR P-PSDB; AAY71458.
XX
XX PT Isolated nucleic acid encoding maize Rad23 protein is used to modulate
the levels of polypeptides in plant or in assays for identifying
compounds that bind to and/or increase/decrease enzymatic activity of
catalytically active polypeptides -
XX
XX Claim 1e; Page 73-75; 82pp; English.
XX
XX The present sequence is the cDNA encoding maize Rad23 protein #1. It is
isolated from V5 root tissue of a Zea mays cell line B73, infected with
corn root worm. This cDNA is deposited under the ATCC No: PTA-530. Maize
Rad23 DNA sequence operably linked to a promoter can be used to construct
a recombinant expression cassette. This expression cassette can be used
to generate a dicot or monocot transgenic plant e.g., maize, soybean,
CC sunflower, sorghum, canola, wheat, etc.. It can also be used to modulate
the levels of Rad23 polypeptide expression in a plant or in assays to
CC identify compounds, that bind to and/or modulate the enzymatic activity
of catalytically active polypeptides.
XX
XX Sequence 1522 BP; 430 A; 375 C; 370 G; 347 T; 0 other;
XX
XX alignment_scores: Length: 405
Quality: 405.00 Gaps: 0
Ratio: 1.000
Percent Similarity: 100.000 Percent Identity: 100.000
XX
XX alignment_block: ..
US-09-805-550-2 x AAD01230 ..

Align seg 1/1 to: AAD01230 from: 1 to: 1522

```

1 MetLeuLeuAsnValIlyThrLeuIySGlyThrAsnPhelGluIleGlu 17
58 ATGAACCTTAACGTCAAGACCCCTCAAGGCGACCACTTCGAGATCGAGC 107
17 aserProaspAlaSerValAlaAspValIySarGileIleGluThrThc 34
108 GAGCCCCGATGCGTTCGATGTGAAGAGATCATTCAGACCAACATC 157
34 IngIyIserThrTyArgAlaAspGluIleMetLeuIleTyGingly 50
158 AAGGTAGAGTACTACCGGGGCGACCAAAATGCTCATATACCAAGG 207
51 LysIleLeuIyAspGluThrThrLeuGluSerAsnGlyValAlaGlu 67
208 AAAATTCCTCAGAGTGAACCACTTGGAAAGCAAGGACTTCCTAGAA 257
67 nserPhelLeuValIleMetLeuSerIySaAlaIySaIaserSerGly 84
258 CAGCTTCCTTGATATATGTGTCCAAAGGCTAAGCATCATCGAGTGAG 307
84 IaserThrIleThrAlaIyAlaIyAlaIyAlaIyAlaIyAlaIyAla 100
308 GTTCTACCGCTACTGCAAAAGCTCTGCAACTGCGCCCAACTGCT 357
101 AlaProValAlaProAlaIaserValAlaIyThrProThrGlnAla 117
358 GCCCGTGGCCCTGCTGCTGATCGATTGCAAGAACCAACAGGCTCC 407
117 oValAlaIyAlaIyAlaIyAlaIyAlaIyAlaIyAlaIyAlaIy 134
408 TGTGGCCACAGCTGAAGCGCACTCCAAAGTGTCCAACTCAGGCTGC 457
134 roAlaIleThrValAlaIleThrAspAlaIyAlaIyAlaIyAlaIy 150
458 CAGCTGCTGAGTGTGCTGCTGATGATGATGATGATGATGATGATG 507
151 AlaSerAsnLeuValPhelGlyAsnAsnLeuGluIleGlnIle 167
508 GCTTCAACCTGTATTTGGCAACATCTAGAACACATCTCCACACAA 557
167 eLeuAspMetGlyGlyThrTrpGluIyAspThrValIyAlaIyAla 184
558 TCTTGACATGGGTGTGTACATGCGAACGTGATCTGTGTCGCTGC 607
184 euAlaIleAlaIyAlaIyAlaIyAlaIyAlaIyAlaIyAlaIyAla 200
608 TACGTGCTGATACATTAACCCGAGAGAGCTATGACTTACCTGTAT 657
201 GlyIleProGluAsnValIyAlaIyAlaIyAlaIyAlaIyAlaIy 217
658 GGAATTCCTGAGATGTGAGGCTGAGCTGTGGCCGAGCACTCTGCG 707
217 aGlyIleGlnIyAsnGlnIleAlaIyAlaIyAlaIyAlaIyAlaIy 234
708 TGGCCCAACAAATACAGAGGCGCCATCACCCGCTCAGCAGCAGTG 757
234 IaleuProValGlnProSerProAlaIyAlaIyAlaIyAlaIyAla 250
758 CATGTGCAATGCAAGCATACCTGCTGAGGCGCTATGCAAAATGCT 807
251 LeuAsnLeuPhelProGlnIyValProSerGlyIySerAsnProGly 267
808 TTGAACCTTTTCCTCAGGCTGTCCAAATGGTGGTCCAAACCCAGGT 857
267 IyAlaIyAlaIyAlaIyAlaIyAlaIyAlaIyAlaIyAlaIyAla 284
858 TGTTCAGAGTGCAGATGTGTGCTCTGATGCTGCGACAGCTTCAC 907
284 IyAlaIyAlaIyAlaIyAlaIyAlaIyAlaIyAlaIyAlaIyAla 300

```

```

908 AGTTCAAGCAGCTCTTCAGTATGCTCAGGCTAATCTCCAAATCTTCAG 957
301 PrometLeuGlnIleuGluIySGlnAsnProGlnIleuArgLeuIle 317
958 CCAATGCTTCAAGAGTAGTAAACAAACCAAAATCTTGGGCTTGAT 1007
317 eGlnIyAsnGlnAlaGluPhelLeuArgLeuValIyAsnGluSerPro 334
1008 TCAGAAAATCAAGCTGAGTTCTCCGCTTGGTGAATGATTCCTGAGG 1057
334 IyGlyProGlyGlyAsnIleLeuGlnIleuAlaIyAlaIyAlaIyAla 350
1058 GTGCTCTGGAGGAACATACATAGTCACTGACCTGCTGTGTCACAA 1107
351 ThrLeuThrValThrProGluGluAlaIyAlaIyAlaIyAlaIyAla 367
1108 ACCGTGACAGTTACCCAGAGAACGAGAGCATATCAGCGGCTCCAGG 1157
367 yMetGlyPheAsnArgGluLeuValIyAlaIyAlaIyAlaIyAlaIy 384
1158 AATGGGCTTCAACCTGAGCTGTGCTAGAAATTTCTTGCATGCCACA 1207
384 yAspGluIyAlaIyAlaIyAlaIyAlaIyAlaIyAlaIyAlaIyAla 400
1208 AGGACGAAGAGCTTACAGCACTCTCTGATGATGATGATGATGATG 1257
401 AspAspGlnGln 405
1258 GAGCATCAGCAGCAA 1272

seq_name: /SIDS1/gcdata/geneseq/geneseq-emb1/NA2000.DAT.AAC48229
seq_documentation_block:
ID AAC48229 standard; DNA: 1424 BP.
XX
AC AAC48229:
XX
DT 18-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana DNA fragment SEQ ID NO: 56722.
XX
KW Hybridisation assay; genetic mapping; gene expression control;
KW protein identification; signal transduction pathway;
KW metabolic pathway; promoter; termination sequence; ss.
OS Arabidopsis thaliana.
XX
PM EP1033405-A2.
XX
PD 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-0301439.
XX
PR 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
PR 25-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
PR 08-APR-1999; 99US-0128714.
PR 16-APR-1999; 99US-0129845.
PR 19-APR-1999; 99US-0130077.
PR 21-APR-1999; 99US-0130449.
PR 23-APR-1999; 99US-0130510.
PR 23-APR-1999; 99US-0130891.
PR 28-APR-1999; 99US-0131449.
PR 30-APR-1999; 99US-0132048.
PR 30-APR-1999; 99US-0132407.
PR 04-MAY-1999; 99US-0132484.
PR 05-MAY-1999; 99US-0132485.
PR 06-MAY-1999; 99US-0132486.

```

PR 06-MAY-1999; 99US-0132487.
PR 07-MAY-1999; 99US-0132863.
PR 11-MAY-1999; 99US-0134256.
PR 14-MAY-1999; 99US-0134218.
PR 14-MAY-1999; 99US-0134219.
PR 14-MAY-1999; 99US-0134221.
PR 14-MAY-1999; 99US-0134370.
PR 18-MAY-1999; 99US-0134768.
PR 19-MAY-1999; 99US-0134941.
PR 20-MAY-1999; 99US-0135124.
PR 21-MAY-1999; 99US-0135353.
PR 24-MAY-1999; 99US-0135629.
PR 25-MAY-1999; 99US-0136021.
PR 27-MAY-1999; 99US-0136392.
PR 28-MAY-1999; 99US-0136782.
PR 01-JUN-1999; 99US-0137222.
PR 03-JUN-1999; 99US-0137528.
PR 04-JUN-1999; 99US-0137502.
PR 07-JUN-1999; 99US-0137724.
PR 08-JUN-1999; 99US-0138094.
PR 10-JUN-1999; 99US-0138540.
PR 10-JUN-1999; 99US-0138847.
PR 14-JUN-1999; 99US-0139119.
PR 16-JUN-1999; 99US-0139452.
PR 16-JUN-1999; 99US-0139453.
PR 17-JUN-1999; 99US-0139492.
PR 18-JUN-1999; 99US-0139454.
PR 18-JUN-1999; 99US-0139455.
PR 18-JUN-1999; 99US-0139456.
PR 18-JUN-1999; 99US-0139457.
PR 18-JUN-1999; 99US-0139458.
PR 18-JUN-1999; 99US-0139459.
PR 18-JUN-1999; 99US-0139460.
PR 18-JUN-1999; 99US-0139461.
PR 18-JUN-1999; 99US-0139462.
PR 18-JUN-1999; 99US-0139463.
PR 18-JUN-1999; 99US-0139750.
PR 18-JUN-1999; 99US-0139763.
PR 21-JUN-1999; 99US-0139817.
PR 22-JUN-1999; 99US-0139899.
PR 23-JUN-1999; 99US-0140353.
PR 23-JUN-1999; 99US-0140354.
PR 24-JUN-1999; 99US-0140695.
PR 28-JUN-1999; 99US-0140823.
PR 29-JUN-1999; 99US-0140991.
PR 30-JUN-1999; 99US-0141287.
PR 01-JUL-1999; 99US-0141842.
PR 01-JUL-1999; 99US-0142154.
PR 02-JUL-1999; 99US-0142055.
PR 06-JUL-1999; 99US-0142390.
PR 08-JUL-1999; 99US-0142803.
PR 09-JUL-1999; 99US-0142920.
PR 12-JUL-1999; 99US-0142977.
PR 13-JUL-1999; 99US-0143542.
PR 14-JUL-1999; 99US-0143624.
PR 15-JUL-1999; 99US-0144005.
PR 16-JUL-1999; 99US-0144085.
PR 16-JUL-1999; 99US-0144086.
PR 19-JUL-1999; 99US-0144325.
PR 19-JUL-1999; 99US-0144331.
PR 19-JUL-1999; 99US-0144332.
PR 19-JUL-1999; 99US-0144333.
PR 19-JUL-1999; 99US-0144334.
PR 19-JUL-1999; 99US-0144335.
PR 20-JUL-1999; 99US-0144352.
PR 20-JUL-1999; 99US-0144632.
PR 20-JUL-1999; 99US-0144884.
PR 21-JUL-1999; 99US-0144814.
PR 21-JUL-1999; 99US-0145086.
PR 21-JUL-1999; 99US-0145088.
PR 22-JUL-1999; 99US-0145085.
PR 22-JUL-1999; 99US-0145087.
PR 22-JUL-1999; 99US-0145089.

PR 22-JUL-1999; 99US-0145192.
PR 23-JUL-1999; 99US-0145145.
PR 23-JUL-1999; 99US-0145218.
PR 26-JUL-1999; 99US-0145224.
PR 26-JUL-1999; 99US-0145276.
PR 27-JUL-1999; 99US-0145913.
PR 27-JUL-1999; 99US-0145918.
PR 27-JUL-1999; 99US-0145919.
PR 28-JUL-1999; 99US-0145951.
PR 02-AUG-1999; 99US-0146386.
PR 02-AUG-1999; 99US-0146388.
PR 03-AUG-1999; 99US-0146389.
PR 03-AUG-1999; 99US-0147038.
PR 04-AUG-1999; 99US-0147204.
PR 05-AUG-1999; 99US-0147302.
PR 05-AUG-1999; 99US-0147192.
PR 05-AUG-1999; 99US-0147260.
PR 06-AUG-1999; 99US-0147303.
PR 06-AUG-1999; 99US-0147416.
PR 09-AUG-1999; 99US-0147493.
PR 10-AUG-1999; 99US-0147935.
PR 11-AUG-1999; 99US-0148319.
PR 12-AUG-1999; 99US-0148341.
PR 13-AUG-1999; 99US-0148565.
PR 13-AUG-1999; 99US-0148684.
PR 16-AUG-1999; 99US-0149368.
PR 17-AUG-1999; 99US-0149175.
PR 18-AUG-1999; 99US-0149426.
PR 20-AUG-1999; 99US-0149722.
PR 20-AUG-1999; 99US-0149723.
PR 20-AUG-1999; 99US-0149929.
PR 23-AUG-1999; 99US-0149902.
PR 23-AUG-1999; 99US-0149930.
PR 25-AUG-1999; 99US-0150566.
PR 25-AUG-1999; 99US-0150884.
PR 27-AUG-1999; 99US-0151065.
PR 27-AUG-1999; 99US-0151066.
PR 27-AUG-1999; 99US-0151080.
PR 30-AUG-1999; 99US-0151303.
PR 31-AUG-1999; 99US-0151438.
PR 01-SEP-1999; 99US-0151930.
PR 07-SEP-1999; 99US-0152363.
PR 10-SEP-1999; 99US-0153070.
PR 13-SEP-1999; 99US-0153758.
PR 15-SEP-1999; 99US-0154018.
PR 16-SEP-1999; 99US-0154039.
PR 20-SEP-1999; 99US-0154779.
PR 22-SEP-1999; 99US-0155139.
PR 23-SEP-1999; 99US-0155486.
PR 24-SEP-1999; 99US-0155659.
PR 28-SEP-1999; 99US-0156458.
PR 29-SEP-1999; 99US-0156596.
PR 04-OCT-1999; 99US-0157117.
PR 05-OCT-1999; 99US-0157753.
PR 06-OCT-1999; 99US-0157865.
PR 07-OCT-1999; 99US-0158029.
PR 08-OCT-1999; 99US-0158232.
PR 12-OCT-1999; 99US-0158369.
PR 13-OCT-1999; 99US-0159293.
PR 13-OCT-1999; 99US-0159294.
PR 13-OCT-1999; 99US-0159295.
PR 14-OCT-1999; 99US-0159329.
PR 14-OCT-1999; 99US-0159330.
PR 14-OCT-1999; 99US-0159331.
PR 14-OCT-1999; 99US-0159637.
PR 14-OCT-1999; 99US-0159638.
PR 18-OCT-1999; 99US-0159584.
PR 21-OCT-1999; 99US-0160741.
PR 21-OCT-1999; 99US-0160767.
PR 21-OCT-1999; 99US-0160768.
PR 21-OCT-1999; 99US-0160770.
PR 21-OCT-1999; 99US-0160814.

PR 21-OCT-1999; 99US-0160815.
PR 22-OCT-1999; 99US-0160980.
PR 22-OCT-1999; 99US-0160981.
PR 22-OCT-1999; 99US-0160989.
PR 25-OCT-1999; 99US-0161404.
PR 25-OCT-1999; 99US-0161405.
PR 25-OCT-1999; 99US-0161406.
PR 26-OCT-1999; 99US-0161359.
PR 26-OCT-1999; 99US-0161360.
PR 26-OCT-1999; 99US-0161361.
PR 28-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161992.
PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

Alignment_scores:
Quality: 21.00 Length: 21
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

Alignment_block:
US-09-805-550-2 x AAC48229 ..

Align seg 1/1 to: AAC48229 from: 1 to: 1424

292 ValGlnAlaAsnProGlnIleLeuGlnProMetLeuGlnIleuGly 308
|||||
883 GTACAGCAACCAACCAATCTACAGCCTATGCTTCAGAGCTCGTAA 932
308 sGlnAsnProGln 312
933 ACNAACCCCAAG 945

seq_name: /SIDS1/gcgcdata/geneseq/geneseqn-emb1/NA2000.DAT.AAC38717
seq_documentation_block:
ID AAC38717 standard; DNA; 1426 BP.
XX AAC38717;
XX
DT 17-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana DNA fragment SEQ ID NO: 21980.
XX
XX Hybridisation assay; genetic mapping; gene expression control;
KW protein identification; signal transduction pathway;
KW metabolic pathway; promoter; termination sequence; ss.
XX
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
XX
PD 06-SEP-2000.
XX
PE 25-FEB-2000; 2000EP-0301439.
XX
PR 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
PR 25-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
PR 08-APR-1999; 99US-0128714.
PR 16-APR-1999; 99US-0129845.
PR 19-APR-1999; 99US-0130077.
PR 21-APR-1999; 99US-0130449.
PR 23-APR-1999; 99US-0130510.
PR 23-APR-1999; 99US-0130891.
PR 28-APR-1999; 99US-0131449.
PR 30-APR-1999; 99US-0132048.
PR 30-APR-1999; 99US-0132407.

PR 04-MAY-1999; 99US-0132484.
PR 05-MAY-1999; 99US-0132485.
PR 06-MAY-1999; 99US-0132486.
PR 06-MAY-1999; 99US-0132487.
PR 07-MAY-1999; 99US-0132863.
PR 11-MAY-1999; 99US-0134256.
PR 14-MAY-1999; 99US-0134218.
PR 14-MAY-1999; 99US-0134219.
PR 14-MAY-1999; 99US-0134370.
PR 18-MAY-1999; 99US-0134376.
PR 19-MAY-1999; 99US-0134941.
PR 20-MAY-1999; 99US-0135124.
PR 21-MAY-1999; 99US-0135353.
PR 24-MAY-1999; 99US-0135629.
PR 25-MAY-1999; 99US-0136021.
PR 27-MAY-1999; 99US-0136392.
PR 28-MAY-1999; 99US-0136782.
PR 01-JUN-1999; 99US-0137222.
PR 03-JUN-1999; 99US-0137528.
PR 04-JUN-1999; 99US-0137502.
PR 07-JUN-1999; 99US-0137724.
PR 08-JUN-1999; 99US-0138094.
PR 10-JUN-1999; 99US-0138540.
PR 14-JUN-1999; 99US-0138847.
PR 16-JUN-1999; 99US-0139119.
PR 16-JUN-1999; 99US-0139452.
PR 17-JUN-1999; 99US-0139453.
PR 18-JUN-1999; 99US-0139454.
PR 18-JUN-1999; 99US-0139455.
PR 18-JUN-1999; 99US-0139456.
PR 18-JUN-1999; 99US-0139457.
PR 18-JUN-1999; 99US-0139458.
PR 18-JUN-1999; 99US-0139459.
PR 18-JUN-1999; 99US-0139460.
PR 18-JUN-1999; 99US-0139461.
PR 18-JUN-1999; 99US-0139462.
PR 18-JUN-1999; 99US-0139463.
PR 18-JUN-1999; 99US-0139750.
PR 18-JUN-1999; 99US-0139763.
PR 21-JUN-1999; 99US-0139817.
PR 22-JUN-1999; 99US-0139899.
PR 23-JUN-1999; 99US-0140353.
PR 23-JUN-1999; 99US-0140354.
PR 24-JUN-1999; 99US-0140695.
PR 28-JUN-1999; 99US-0140823.
PR 29-JUN-1999; 99US-0140991.
PR 30-JUN-1999; 99US-0141287.
PR 01-JUL-1999; 99US-0141842.
PR 01-JUL-1999; 99US-0142154.
PR 02-JUL-1999; 99US-0142055.
PR 06-JUL-1999; 99US-0142390.
PR 08-JUL-1999; 99US-0142803.
PR 09-JUL-1999; 99US-0142920.
PR 12-JUL-1999; 99US-0142977.
PR 13-JUL-1999; 99US-0143542.
PR 14-JUL-1999; 99US-0143624.
PR 15-JUL-1999; 99US-0144005.
PR 16-JUL-1999; 99US-0144085.
PR 16-JUL-1999; 99US-0144086.
PR 19-JUL-1999; 99US-0144325.
PR 19-JUL-1999; 99US-0144331.
PR 19-JUL-1999; 99US-0144332.
PR 19-JUL-1999; 99US-0144333.
PR 19-JUL-1999; 99US-0144334.
PR 20-JUL-1999; 99US-0144335.
PR 20-JUL-1999; 99US-0144352.
PR 20-JUL-1999; 99US-0144632.
PR 20-JUL-1999; 99US-0144884.
PR 21-JUL-1999; 99US-0144814.
PR 21-JUL-1999; 99US-0145086.
PR 21-JUL-1999; 99US-0145088.

PR 22-JUL-1999; 99US-0145085.
PR 22-JUL-1999; 99US-0145087.
PR 22-JUL-1999; 99US-0145089.
PR 22-JUL-1999; 99US-0145192.
PR 23-JUL-1999; 99US-0145145.
PR 23-JUL-1999; 99US-0145218.
PR 23-JUL-1999; 99US-0145224.
PR 26-JUL-1999; 99US-0145276.
PR 27-JUL-1999; 99US-0145913.
PR 27-JUL-1999; 99US-0145918.
PR 28-JUL-1999; 99US-0145951.
PR 02-AUG-1999; 99US-0145386.
PR 02-AUG-1999; 99US-0145388.
PR 03-AUG-1999; 99US-0145388.
PR 04-AUG-1999; 99US-0147038.
PR 04-AUG-1999; 99US-0147204.
PR 04-AUG-1999; 99US-0147302.
PR 05-AUG-1999; 99US-0147192.
PR 05-AUG-1999; 99US-0147260.
PR 06-AUG-1999; 99US-0147303.
PR 06-AUG-1999; 99US-0147416.
PR 09-AUG-1999; 99US-0147493.
PR 09-AUG-1999; 99US-0147935.
PR 10-AUG-1999; 99US-0148171.
PR 11-AUG-1999; 99US-0148319.
PR 12-AUG-1999; 99US-0148341.
PR 13-AUG-1999; 99US-0148565.
PR 13-AUG-1999; 99US-0148684.
PR 16-AUG-1999; 99US-0149368.
PR 17-AUG-1999; 99US-0148175.
PR 18-AUG-1999; 99US-0149426.
PR 20-AUG-1999; 99US-0149722.
PR 20-AUG-1999; 99US-0149723.
PR 20-AUG-1999; 99US-0149929.
PR 23-AUG-1999; 99US-0149902.
PR 23-AUG-1999; 99US-0149930.
PR 25-AUG-1999; 99US-0150566.
PR 26-AUG-1999; 99US-0150884.
PR 27-AUG-1999; 99US-0151065.
PR 27-AUG-1999; 99US-0151066.
PR 30-AUG-1999; 99US-0151080.
PR 31-AUG-1999; 99US-0151303.
PR 01-SEP-1999; 99US-0151438.
PR 07-SEP-1999; 99US-0152363.
PR 10-SEP-1999; 99US-0153070.
PR 13-SEP-1999; 99US-0153758.
PR 13-SEP-1999; 99US-0154018.
PR 16-SEP-1999; 99US-0154039.
PR 20-SEP-1999; 99US-0154779.
PR 22-SEP-1999; 99US-0155139.
PR 23-SEP-1999; 99US-0155486.
PR 24-SEP-1999; 99US-0155659.
PR 28-SEP-1999; 99US-0156458.
PR 29-SEP-1999; 99US-0156596.
PR 04-OCT-1999; 99US-0157117.
PR 05-OCT-1999; 99US-0157753.
PR 06-OCT-1999; 99US-0157865.
PR 07-OCT-1999; 99US-0158029.
PR 08-OCT-1999; 99US-0158232.
PR 12-OCT-1999; 99US-0158369.
PR 13-OCT-1999; 99US-0159293.
PR 13-OCT-1999; 99US-0159295.
PR 13-OCT-1999; 99US-0159295.
PR 14-OCT-1999; 99US-0159329.
PR 14-OCT-1999; 99US-0159330.
PR 14-OCT-1999; 99US-0159331.
PR 14-OCT-1999; 99US-0159637.
PR 14-OCT-1999; 99US-0159638.
PR 18-OCT-1999; 99US-0159584.
PR 21-OCT-1999; 99US-0160741.
PR 21-OCT-1999; 99US-0160767.

PR 21-OCT-1999; 99US-0160768.
PR 21-OCT-1999; 99US-0160770.
PR 21-OCT-1999; 99US-0160814.
PR 21-OCT-1999; 99US-0160815.
PR 22-OCT-1999; 99US-0160980.
PR 22-OCT-1999; 99US-0160981.
PR 22-OCT-1999; 99US-0160989.
PR 25-OCT-1999; 99US-0161404.
PR 25-OCT-1999; 99US-0161405.
PR 25-OCT-1999; 99US-0161406.
PR 26-OCT-1999; 99US-0161359.
PR 26-OCT-1999; 99US-0161360.
PR 26-OCT-1999; 99US-0161361.
PR 28-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161992.
PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

alignment_scores: Quality: 21.00 Length: 21
 Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:
US-09-805-550-2 x AAC38717 ..

Align seg 1/1 to: AAC38717 from: 1 to: 1426

292 ValGlnAlaAsnProGlnIleLeuGlnProMetLeuGlnIleuGlyLy 308
|||||
883 GTACACGCAACCAACCAATTCACGCTTACGAGCTCGGCTAA 932
|||||
308 sGlnAsnProGln 312
933 ACAAAACCCCCAG 945

seq_name: /SIDSI/gcgcdata/geneseq/geneseqn-emb1/NA2000.DAT:AAC47900
seq_documentation_block:
ID AAC47900 standard; DNA; 1549 BP.
XX
AC AAC47900;
XX
DT 18-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana DNA fragment SEQ ID NO: 55530.
XX
KW Hybridisation assay; genetic mapping; gene expression control;
KW Protein identification; signal transduction pathway;
KW metabolic pathway; promoter; termination sequence; ss.
XX
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
XX
PD 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-0301439.
XX
PR 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
PR 25-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
PR 16-APR-1999; 99US-0128714.
PR 19-APR-1999; 99US-0129845.
PR 21-APR-1999; 99US-0130077.
PR 23-APR-1999; 99US-0130449.
PR 23-APR-1999; 99US-0130510.
PR 23-APR-1999; 99US-0130891.

```
PR 28-APR-1999; 99US-0131449.
PR 30-APR-1999; 99US-0132048.
PR 30-APR-1999; 99US-0132407.
PR 04-MAY-1999; 99US-0132484.
PR 05-MAY-1999; 99US-0132485.
PR 06-MAY-1999; 99US-0132486.
PR 06-MAY-1999; 99US-0132487.
PR 07-MAY-1999; 99US-0132863.
PR 11-MAY-1999; 99US-0134256.
PR 14-MAY-1999; 99US-0134218.
PR 14-MAY-1999; 99US-0134219.
PR 14-MAY-1999; 99US-0134221.
PR 18-MAY-1999; 99US-0134370.
PR 18-MAY-1999; 99US-0134768.
PR 19-MAY-1999; 99US-0134941.
PR 20-MAY-1999; 99US-0135124.
PR 21-MAY-1999; 99US-0135353.
PR 24-MAY-1999; 99US-0135629.
PR 25-MAY-1999; 99US-0136021.
PR 27-MAY-1999; 99US-0136392.
PR 28-MAY-1999; 99US-0136782.
PR 01-JUN-1999; 99US-0137222.
PR 03-JUN-1999; 99US-0137528.
PR 04-JUN-1999; 99US-0137502.
PR 07-JUN-1999; 99US-0137724.
PR 08-JUN-1999; 99US-0138094.
PR 10-JUN-1999; 99US-0138540.
PR 10-JUN-1999; 99US-0138847.
PR 14-JUN-1999; 99US-0139119.
PR 16-JUN-1999; 99US-0139452.
PR 16-JUN-1999; 99US-0139453.
PR 17-JUN-1999; 99US-0139492.
PR 18-JUN-1999; 99US-0139454.
PR 18-JUN-1999; 99US-0139455.
PR 18-JUN-1999; 99US-0139456.
PR 18-JUN-1999; 99US-0139457.
PR 18-JUN-1999; 99US-0139458.
PR 18-JUN-1999; 99US-0139459.
PR 18-JUN-1999; 99US-0139460.
PR 18-JUN-1999; 99US-0139461.
PR 18-JUN-1999; 99US-0139462.
PR 18-JUN-1999; 99US-0139463.
PR 18-JUN-1999; 99US-0139750.
PR 18-JUN-1999; 99US-0139763.
PR 21-JUN-1999; 99US-0139817.
PR 22-JUN-1999; 99US-0139899.
PR 23-JUN-1999; 99US-0140353.
PR 23-JUN-1999; 99US-0140354.
PR 24-JUN-1999; 99US-0140695.
PR 28-JUN-1999; 99US-0140823.
PR 29-JUN-1999; 99US-0140981.
PR 30-JUN-1999; 99US-0141287.
PR 01-JUL-1999; 99US-0141842.
PR 01-JUL-1999; 99US-0142154.
PR 02-JUL-1999; 99US-0142055.
PR 06-JUL-1999; 99US-0142390.
PR 08-JUL-1999; 99US-0142803.
PR 09-JUL-1999; 99US-0142920.
PR 12-JUL-1999; 99US-0142977.
PR 13-JUL-1999; 99US-0143542.
PR 14-JUL-1999; 99US-0143624.
PR 15-JUL-1999; 99US-0144005.
PR 16-JUL-1999; 99US-0144085.
PR 16-JUL-1999; 99US-0144086.
PR 19-JUL-1999; 99US-0144325.
PR 19-JUL-1999; 99US-0144331.
PR 19-JUL-1999; 99US-0144332.
PR 19-JUL-1999; 99US-0144333.
PR 19-JUL-1999; 99US-0144334.
PR 19-JUL-1999; 99US-0144335.
PR 20-JUL-1999; 99US-0144352.
PR 20-JUL-1999; 99US-0144632.
PR 20-JUL-1999; 99US-0144884.

PR 21-JUL-1999; 99US-0144814.
PR 21-JUL-1999; 99US-0145086.
PR 21-JUL-1999; 99US-0145088.
PR 22-JUL-1999; 99US-0145087.
PR 22-JUL-1999; 99US-0145088.
PR 22-JUL-1999; 99US-0145089.
PR 22-JUL-1999; 99US-0145192.
PR 23-JUL-1999; 99US-0145145.
PR 23-JUL-1999; 99US-0145218.
PR 23-JUL-1999; 99US-0145224.
PR 26-JUL-1999; 99US-0145276.
PR 27-JUL-1999; 99US-0145913.
PR 27-JUL-1999; 99US-0145918.
PR 27-JUL-1999; 99US-0145919.
PR 28-JUL-1999; 99US-0145951.
PR 02-AUG-1999; 99US-0146386.
PR 02-AUG-1999; 99US-0146388.
PR 02-AUG-1999; 99US-0146389.
PR 03-AUG-1999; 99US-0147038.
PR 04-AUG-1999; 99US-0147204.
PR 04-AUG-1999; 99US-0147302.
PR 05-AUG-1999; 99US-0147192.
PR 05-AUG-1999; 99US-0147260.
PR 06-AUG-1999; 99US-0147303.
PR 06-AUG-1999; 99US-0147416.
PR 09-AUG-1999; 99US-0147493.
PR 09-AUG-1999; 99US-0147935.
PR 10-AUG-1999; 99US-0148171.
PR 11-AUG-1999; 99US-0148319.
PR 12-AUG-1999; 99US-0148341.
PR 13-AUG-1999; 99US-0148565.
PR 13-AUG-1999; 99US-0148684.
PR 16-AUG-1999; 99US-0149368.
PR 17-AUG-1999; 99US-0149175.
PR 18-AUG-1999; 99US-0149426.
PR 20-AUG-1999; 99US-0149722.
PR 20-AUG-1999; 99US-0149723.
PR 20-AUG-1999; 99US-0149724.
PR 23-AUG-1999; 99US-0149902.
PR 23-AUG-1999; 99US-0149930.
PR 25-AUG-1999; 99US-0150566.
PR 26-AUG-1999; 99US-0150884.
PR 27-AUG-1999; 99US-0151065.
PR 27-AUG-1999; 99US-0151066.
PR 27-AUG-1999; 99US-0151080.
PR 30-AUG-1999; 99US-0151303.
PR 31-AUG-1999; 99US-0151438.
PR 01-SEP-1999; 99US-0151930.
PR 07-SEP-1999; 99US-0152363.
PR 10-SEP-1999; 99US-0153070.
PR 13-SEP-1999; 99US-0153758.
PR 15-SEP-1999; 99US-0154018.
PR 16-SEP-1999; 99US-0154039.
PR 20-SEP-1999; 99US-0154779.
PR 22-SEP-1999; 99US-0155139.
PR 23-SEP-1999; 99US-0155486.
PR 24-SEP-1999; 99US-0155659.
PR 28-SEP-1999; 99US-0156458.
PR 29-SEP-1999; 99US-0156596.
PR 04-OCT-1999; 99US-0157117.
PR 05-OCT-1999; 99US-0157753.
PR 06-OCT-1999; 99US-0157865.
PR 07-OCT-1999; 99US-0158029.
PR 08-OCT-1999; 99US-0158232.
PR 12-OCT-1999; 99US-0158369.
PR 13-OCT-1999; 99US-0159293.
PR 13-OCT-1999; 99US-0159294.
PR 13-OCT-1999; 99US-0159295.
PR 14-OCT-1999; 99US-0159329.
PR 14-OCT-1999; 99US-0159330.
PR 14-OCT-1999; 99US-0159331.
PR 14-OCT-1999; 99US-0159637.
PR 14-OCT-1999; 99US-0159638.
```

```
PR 18-OCT-1999; 99US-0159584.
PR 21-OCT-1999; 99US-0160741.
PR 21-OCT-1999; 99US-0160741.
PR 21-OCT-1999; 99US-0160767.
PR 21-OCT-1999; 99US-0160768.
PR 21-OCT-1999; 99US-0160770.
PR 21-OCT-1999; 99US-0160814.
PR 21-OCT-1999; 99US-0160815.
PR 22-OCT-1999; 99US-0160980.
PR 22-OCT-1999; 99US-0160981.
PR 22-OCT-1999; 99US-0160989.
PR 25-OCT-1999; 99US-0161404.
PR 25-OCT-1999; 99US-0161405.
PR 25-OCT-1999; 99US-0161406.
PR 26-OCT-1999; 99US-0161359.
PR 26-OCT-1999; 99US-0161360.
PR 26-OCT-1999; 99US-0161361.
PR 28-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161992.
PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

alignment_scores:
    Quality: 18.00      Length: 18
    Ratio: 1.000      Gaps: 0
    Percent Similarity: 100.000      Percent Identity: 100.000

alignment_block:
US-09-805-550-2 x AAC47900 ..

Align seg 1/1 to: AAC47900 from: 1 to: 1549

295 AsnProGlnIleuGlnProMetIeuGlnIuGlnIuGlyGlnAsnPr 311
|||||
1009 AACCCCGAGATTCGACGCTATCTCAACAGCGTCGGAAGCAACCC 1058
311 OGln 312
||||
1059 CCAA 1062

seq_name: /SIDSI/gcgdata/geneseq/geneseqn-emb1/NA2000.DAT:AAC37705
seq_documentation_block:
ID AAC37705 standard; DNA; 1551 BP.
XX
AC AAC37705;
XX
DT 17-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana DNA fragment SEQ ID NO: 18371.
XX
XX Hybridisation assay; genetic mapping; gene expression control;
KM protein identification; signal transduction pathway;
KM metabolic pathway; promoter; termination sequence; ss.
XX
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
XX
PD 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-0301439.
XX
PR 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
PR 23-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
PR 08-APR-1999; 99US-0128714.
PR 16-APR-1999; 99US-0129845.
PR 19-APR-1999; 99US-0130077.
```

```
PR 21-APR-1999; 99US-0130449.
PR 23-APR-1999; 99US-0130510.
PR 23-APR-1999; 99US-0130891.
PR 28-APR-1999; 99US-0131449.
PR 30-APR-1999; 99US-0132048.
PR 30-APR-1999; 99US-0132407.
PR 04-MAY-1999; 99US-0132484.
PR 05-MAY-1999; 99US-0132485.
PR 06-MAY-1999; 99US-0132486.
PR 07-MAY-1999; 99US-0132487.
PR 11-MAY-1999; 99US-0132863.
PR 14-MAY-1999; 99US-0134256.
PR 14-MAY-1999; 99US-0134218.
PR 14-MAY-1999; 99US-0134219.
PR 14-MAY-1999; 99US-0134221.
PR 14-MAY-1999; 99US-0134370.
PR 18-MAY-1999; 99US-0134768.
PR 19-MAY-1999; 99US-0134941.
PR 20-MAY-1999; 99US-0135124.
PR 21-MAY-1999; 99US-0135353.
PR 24-MAY-1999; 99US-0135629.
PR 25-MAY-1999; 99US-0136021.
PR 27-MAY-1999; 99US-0136392.
PR 28-MAY-1999; 99US-0136782.
PR 01-JUN-1999; 99US-0137222.
PR 03-JUN-1999; 99US-0137528.
PR 04-JUN-1999; 99US-0137502.
PR 07-JUN-1999; 99US-0137724.
PR 08-JUN-1999; 99US-0138094.
PR 10-JUN-1999; 99US-0138540.
PR 10-JUN-1999; 99US-0138847.
PR 14-JUN-1999; 99US-0139119.
PR 16-JUN-1999; 99US-0139452.
PR 16-JUN-1999; 99US-0139453.
PR 17-JUN-1999; 99US-0139454.
PR 18-JUN-1999; 99US-0139454.
PR 18-JUN-1999; 99US-0139455.
PR 18-JUN-1999; 99US-0139456.
PR 18-JUN-1999; 99US-0139457.
PR 18-JUN-1999; 99US-0139458.
PR 18-JUN-1999; 99US-0139459.
PR 18-JUN-1999; 99US-0139750.
PR 18-JUN-1999; 99US-0139763.
PR 21-JUN-1999; 99US-0139817.
PR 22-JUN-1999; 99US-0139899.
PR 23-JUN-1999; 99US-0140353.
PR 23-JUN-1999; 99US-0140354.
PR 24-JUN-1999; 99US-0140695.
PR 28-JUN-1999; 99US-0140823.
PR 29-JUN-1999; 99US-0140991.
PR 30-JUN-1999; 99US-0141287.
PR 01-JUL-1999; 99US-0141842.
PR 01-JUL-1999; 99US-0142154.
PR 02-JUL-1999; 99US-0142055.
PR 06-JUL-1999; 99US-0142380.
PR 08-JUL-1999; 99US-0142803.
PR 09-JUL-1999; 99US-0142920.
PR 12-JUL-1999; 99US-0142977.
PR 13-JUL-1999; 99US-0143542.
PR 14-JUL-1999; 99US-0143624.
PR 15-JUL-1999; 99US-0144005.
PR 16-JUL-1999; 99US-0144085.
PR 16-JUL-1999; 99US-0144086.
PR 19-JUL-1999; 99US-0144335.
PR 19-JUL-1999; 99US-0144331.
PR 19-JUL-1999; 99US-0144332.
PR 19-JUL-1999; 99US-0144333.
PR 19-JUL-1999; 99US-0144334.
PR 19-JUL-1999; 99US-0144335.
```

```

PR 20-JUL-1999; 99US-0144352.
PR 20-JUL-1999; 99US-0144632.
PR 20-JUL-1999; 99US-0144884.
PR 21-JUL-1999; 99US-0144814.
PR 21-JUL-1999; 99US-0145086.
PR 21-JUL-1999; 99US-0145088.
PR 22-JUL-1999; 99US-0145085.
PR 22-JUL-1999; 99US-0145087.
PR 22-JUL-1999; 99US-0145089.
PR 22-JUL-1999; 99US-0145192.
PR 23-JUL-1999; 99US-0145145.
PR 23-JUL-1999; 99US-0145218.
PR 23-JUL-1999; 99US-0145224.
PR 26-JUL-1999; 99US-0145276.
PR 27-JUL-1999; 99US-0145913.
PR 27-JUL-1999; 99US-0145918.
PR 28-JUL-1999; 99US-0145951.
PR 02-AUG-1999; 99US-0146386.
PR 02-AUG-1999; 99US-0146388.
PR 03-AUG-1999; 99US-0146389.
PR 04-AUG-1999; 99US-0147038.
PR 04-AUG-1999; 99US-0147204.
PR 05-AUG-1999; 99US-0147302.
PR 05-AUG-1999; 99US-0147192.
PR 06-AUG-1999; 99US-0147260.
PR 06-AUG-1999; 99US-0147303.
PR 06-AUG-1999; 99US-0147416.
PR 09-AUG-1999; 99US-0147493.
PR 09-AUG-1999; 99US-0147935.
PR 10-AUG-1999; 99US-0148171.
PR 11-AUG-1999; 99US-0148319.
PR 12-AUG-1999; 99US-0148341.
PR 13-AUG-1999; 99US-0148565.
PR 13-AUG-1999; 99US-0148684.
PR 16-AUG-1999; 99US-0149368.
PR 17-AUG-1999; 99US-0149175.
PR 18-AUG-1999; 99US-0149426.
PR 20-AUG-1999; 99US-0149722.
PR 20-AUG-1999; 99US-0149723.
PR 20-AUG-1999; 99US-0149929.
PR 23-AUG-1999; 99US-0149902.
PR 23-AUG-1999; 99US-0149930.
PR 25-AUG-1999; 99US-0150566.
PR 26-AUG-1999; 99US-0150884.
PR 27-AUG-1999; 99US-0151065.
PR 27-AUG-1999; 99US-0151066.
PR 27-AUG-1999; 99US-0151080.
PR 30-AUG-1999; 99US-0151303.
PR 31-AUG-1999; 99US-0151438.
PR 01-SEP-1999; 99US-0151930.
PR 07-SEP-1999; 99US-0152363.
PR 10-SEP-1999; 99US-0153070.
PR 13-SEP-1999; 99US-0153758.
PR 15-SEP-1999; 99US-0154018.
PR 16-SEP-1999; 99US-0154039.
PR 20-SEP-1999; 99US-0154779.
PR 22-SEP-1999; 99US-0155139.
PR 23-SEP-1999; 99US-0155486.
PR 24-SEP-1999; 99US-0155659.
PR 28-SEP-1999; 99US-0156458.
PR 29-SEP-1999; 99US-0156596.
PR 04-OCT-1999; 99US-0157117.
PR 05-OCT-1999; 99US-0157753.
PR 06-OCT-1999; 99US-0157865.
PR 07-OCT-1999; 99US-0158029.
PR 08-OCT-1999; 99US-0158232.
PR 12-OCT-1999; 99US-0158359.
PR 13-OCT-1999; 99US-0159293.
PR 13-OCT-1999; 99US-0159294.
PR 13-OCT-1999; 99US-0159295.
PR 14-OCT-1999; 99US-0159329.
PR 14-OCT-1999; 99US-0159330.

```

```

PR 14-OCT-1999; 99US-0159331.
PR 14-OCT-1999; 99US-0159637.
PR 14-OCT-1999; 99US-0159638.
PR 18-OCT-1999; 99US-0159584.
PR 21-OCT-1999; 99US-0160741.
PR 21-OCT-1999; 99US-0160767.
PR 21-OCT-1999; 99US-0160768.
PR 21-OCT-1999; 99US-0160770.
PR 21-OCT-1999; 99US-0160814.
PR 21-OCT-1999; 99US-0160815.
PR 22-OCT-1999; 99US-0160980.
PR 22-OCT-1999; 99US-0160981.
PR 22-OCT-1999; 99US-0160989.
PR 25-OCT-1999; 99US-0161404.
PR 25-OCT-1999; 99US-0161405.
PR 25-OCT-1999; 99US-0161406.
PR 26-OCT-1999; 99US-0161359.
PR 26-OCT-1999; 99US-0161360.
PR 26-OCT-1999; 99US-0161361.
PR 28-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161992.
PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

```

```

alignment_scores:
  Quality: 18.00      Length: 18
  Ratio: 1.000      Gaps: 0
Percent Similarity: 100.000  Percent Identity: 100.000

```

```

alignment_block:
US-09-805-550-2 x AAC37705 ..

```

```

Align seg 1/1 to: AAC37705 from: 1 to: 1551

```

```

295 AsnProGlnIleLeuGlnProMetLeuGlnIleuGlyLysGlnAsnPr 311
|||||
926 AACCCCAATTCCTCAGCCCATGCTTCAGAACTTGAAAGCAAAACCC 975

```

```

311 ogln 312
||||

```

```

976 TCNA 979

```

```

seq_name: /SIDS1/gcgdata/geneseq/geneseqn_emb1/NA2000.DAT.AAA31521

```

```

seq_documentation_block:

```

```

ID AAA31521 standard; DNA; 480 BP.

```

```

AC AAA31521;

```

```

DT 05-JUL-2000 (first entry)

```

```

DE Plant microsatellite marker #482.

```

```

KW Plant microsatellite sequence; core repeat sequence; detection; probe;

```

```

KW DNA polymorphism; genome mapping; physical mapping; fingerprinting;

```

```

KW variety identification; genetic variability evaluation; primer; ss.

```

```

OS Eucalyptus grandis.

```

```

PN WO9967421-A1.

```

```

PD 29-DEC-1999.

```

```

PF 25-JUN-1999; 99WO-NZ00092.

```

```

PR 25-JUN-1998; 98US-0105307.

```

```

PA (GENE-) GENESIS RES & DEV CORP LTD & FLETCHER.

```

```

PI (FLET-) FLETCHER CHALLENGE FORESTS LTD.

```

```

WPI: 2000-116958/10.

```


XX New plant microsatellite markers and associated flanking species for
PT the detection of polymorphic genetic markers -
XX
XX
PS Claim 1, Page 219; 392pp: English.
XX
CC Sequences AAA31040-A32093 represent novel plant microsatellite sequences
CC and associated flanking species. The sequences comprise a central core
CC repeat sequence, especially selected from the sequences AAA32094-A32096
CC with left and right flanking sequences. The polynucleotide sequences
CC can be used in the detection of DNA polymorphisms, in genome mapping,
CC in physical mapping, in positional cloning of genes, in variety
CC identification and in evaluation of genetic variability within and
CC between plant tissues, populations, cultivars, species and species
CC groups. They may also be used to design hybridization probes for
CC oligonucleotide fingerprinting and library screening and to design
CC primers for microsatellite-primed PCR. Microsatellite markers are
CC useful to locate specific economically useful genes in plant genomes.
XX
SQ Sequence 480 BP; 136 A; 110 C; 130 G; 104 T; 0 other;

alignment_scores:
Quality: 13.00 Length: 13
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:
US-09-805-550-2 x AAA31521 ..

Align seq 1/1 to: AAA31521 from: 1 to: 480

4 AsnVallysthrLeuLysGlyThrAsnPhgIuilegu 16
|||||
176 AACGTCAAGACTCTGAGGCGACCACTTCGAATCGAA 214

seq_name: /STD1/gc9data/geneseq/geneseq-emb1/NA2000.DAT:AAc44960

seq_documentation_block:
ID AAC44960 standard; DNA; 850 BP.
XX
AC AAC44960;
XX
DT 18-OCT-2000 (first entry)
XX
DE Arabidopsis thaliana DNA fragment SEQ ID NO: 44778.
XX
KW Hybridisation assay; genetic mapping; gene expression control;
KW protein identification; signal transduction pathway;
KW metabolic pathway; promoter; termination sequence; ss.
XX
OS Arabidopsis thaliana.
XX
PN EP1033405-A2.
XX
PD 06-SEP-2000.
XX
PF 25-FEB-2000; 2000EP-0301439.
XX
PR 25-FEB-1999; 99US-0121825.
PR 05-MAR-1999; 99US-0123180.
PR 09-MAR-1999; 99US-0123548.
PR 23-MAR-1999; 99US-0125788.
PR 25-MAR-1999; 99US-0126264.
PR 29-MAR-1999; 99US-0126785.
PR 01-APR-1999; 99US-0127462.
PR 06-APR-1999; 99US-0128234.
PR 08-APR-1999; 99US-0128714.
PR 16-APR-1999; 99US-0129845.
PR 19-APR-1999; 99US-0130077.
PR 21-APR-1999; 99US-0130449.
PR 23-APR-1999; 99US-0130510.
PR 23-APR-1999; 99US-0130891.

PR 28-APR-1999; 99US-0131449.
PR 30-APR-1999; 99US-0132048.
PR 30-APR-1999; 99US-0132407.
PR 04-MAY-1999; 99US-0132484.
PR 05-MAY-1999; 99US-0132485.
PR 06-MAY-1999; 99US-0132486.
PR 06-MAY-1999; 99US-0132487.
PR 07-MAY-1999; 99US-0132863.
PR 11-MAY-1999; 99US-0134256.
PR 14-MAY-1999; 99US-0134218.
PR 14-MAY-1999; 99US-0134219.
PR 14-MAY-1999; 99US-0134221.
PR 14-MAY-1999; 99US-0134370.
PR 18-MAY-1999; 99US-0134768.
PR 19-MAY-1999; 99US-0134941.
PR 20-MAY-1999; 99US-0135124.
PR 21-MAY-1999; 99US-0135353.
PR 24-MAY-1999; 99US-0135629.
PR 25-MAY-1999; 99US-0136021.
PR 27-MAY-1999; 99US-0136392.
PR 28-MAY-1999; 99US-0136782.
PR 01-JUN-1999; 99US-0137222.
PR 03-JUN-1999; 99US-0137528.
PR 04-JUN-1999; 99US-0137502.
PR 07-JUN-1999; 99US-0137724.
PR 08-JUN-1999; 99US-0138094.
PR 10-JUN-1999; 99US-0138540.
PR 10-JUN-1999; 99US-0138847.
PR 14-JUN-1999; 99US-0139119.
PR 16-JUN-1999; 99US-0139152.
PR 16-JUN-1999; 99US-0139452.
PR 17-JUN-1999; 99US-0139453.
PR 18-JUN-1999; 99US-0139492.
PR 18-JUN-1999; 99US-0139454.
PR 18-JUN-1999; 99US-0139455.
PR 18-JUN-1999; 99US-0139456.
PR 18-JUN-1999; 99US-0139457.
PR 18-JUN-1999; 99US-0139458.
PR 18-JUN-1999; 99US-0139459.
PR 18-JUN-1999; 99US-0139460.
PR 18-JUN-1999; 99US-0139461.
PR 18-JUN-1999; 99US-0139462.
PR 18-JUN-1999; 99US-0139463.
PR 18-JUN-1999; 99US-0139464.
PR 18-JUN-1999; 99US-0139750.
PR 18-JUN-1999; 99US-0139763.
PR 21-JUN-1999; 99US-0139817.
PR 22-JUN-1999; 99US-0139899.
PR 23-JUN-1999; 99US-0140353.
PR 23-JUN-1999; 99US-0140354.
PR 24-JUN-1999; 99US-0140695.
PR 28-JUN-1999; 99US-0140823.
PR 29-JUN-1999; 99US-0140991.
PR 30-JUN-1999; 99US-0141287.
PR 01-JUL-1999; 99US-0141842.
PR 01-JUL-1999; 99US-0142154.
PR 02-JUL-1999; 99US-0142055.
PR 06-JUL-1999; 99US-0142390.
PR 08-JUL-1999; 99US-0142803.
PR 09-JUL-1999; 99US-0142920.
PR 12-JUL-1999; 99US-0142977.
PR 13-JUL-1999; 99US-0143542.
PR 14-JUL-1999; 99US-0143624.
PR 15-JUL-1999; 99US-0144005.
PR 16-JUL-1999; 99US-0144085.
PR 16-JUL-1999; 99US-0144086.
PR 19-JUL-1999; 99US-0144325.
PR 19-JUL-1999; 99US-0144331.
PR 19-JUL-1999; 99US-0144332.
PR 19-JUL-1999; 99US-0144333.
PR 19-JUL-1999; 99US-0144334.
PR 19-JUL-1999; 99US-0144335.
PR 20-JUL-1999; 99US-0144352.
PR 20-JUL-1999; 99US-0144632.
PR 20-JUL-1999; 99US-0144884.

```

PR 21-JUL-1999; 99US-0144814.
PR 21-JUL-1999; 99US-0145086.
PR 21-JUL-1999; 99US-0145088.
PR 22-JUL-1999; 99US-0145085.
PR 22-JUL-1999; 99US-0145087.
PR 22-JUL-1999; 99US-0145089.
PR 22-JUL-1999; 99US-0145192.
PR 23-JUL-1999; 99US-0145145.
PR 23-JUL-1999; 99US-0145218.
PR 23-JUL-1999; 99US-0145224.
PR 26-JUL-1999; 99US-0145276.
PR 27-JUL-1999; 99US-0145913.
PR 27-JUL-1999; 99US-0145918.
PR 27-JUL-1999; 99US-0145919.
PR 28-JUL-1999; 99US-0145951.
PR 02-AUG-1999; 99US-0146386.
PR 02-AUG-1999; 99US-0146388.
PR 02-AUG-1999; 99US-0146389.
PR 03-AUG-1999; 99US-0147038.
PR 04-AUG-1999; 99US-0147204.
PR 04-AUG-1999; 99US-0147302.
PR 05-AUG-1999; 99US-0147302.
PR 05-AUG-1999; 99US-0147260.
PR 06-AUG-1999; 99US-0147303.
PR 06-AUG-1999; 99US-0147416.
PR 09-AUG-1999; 99US-0147493.
PR 09-AUG-1999; 99US-0147935.
PR 10-AUG-1999; 99US-0148171.
PR 11-AUG-1999; 99US-0148319.
PR 12-AUG-1999; 99US-0148341.
PR 13-AUG-1999; 99US-0148565.
PR 13-AUG-1999; 99US-0148684.
PR 16-AUG-1999; 99US-0149368.
PR 17-AUG-1999; 99US-0149175.
PR 18-AUG-1999; 99US-0149426.
PR 20-AUG-1999; 99US-0149722.
PR 20-AUG-1999; 99US-0149723.
PR 20-AUG-1999; 99US-0149929.
PR 23-AUG-1999; 99US-0149902.
PR 23-AUG-1999; 99US-0149930.
PR 25-AUG-1999; 99US-0150566.
PR 26-AUG-1999; 99US-0150884.
PR 27-AUG-1999; 99US-0151065.
PR 27-AUG-1999; 99US-0151066.
PR 27-AUG-1999; 99US-0151080.
PR 30-AUG-1999; 99US-0151303.
PR 31-AUG-1999; 99US-0151438.
PR 01-SEP-1999; 99US-0151930.
PR 07-SEP-1999; 99US-0152363.
PR 10-SEP-1999; 99US-0153070.
PR 13-SEP-1999; 99US-0153758.
PR 15-SEP-1999; 99US-0154018.
PR 16-SEP-1999; 99US-0154039.
PR 20-SEP-1999; 99US-0154779.
PR 22-SEP-1999; 99US-0155139.
PR 23-SEP-1999; 99US-0155486.
PR 24-SEP-1999; 99US-015659.
PR 28-SEP-1999; 99US-0156458.
PR 29-SEP-1999; 99US-0156596.
PR 04-OCT-1999; 99US-0157117.
PR 05-OCT-1999; 99US-0157753.
PR 06-OCT-1999; 99US-0157865.
PR 07-OCT-1999; 99US-0158029.
PR 08-OCT-1999; 99US-0158232.
PR 12-OCT-1999; 99US-0158369.
PR 13-OCT-1999; 99US-0159294.
PR 13-OCT-1999; 99US-0159293.
PR 13-OCT-1999; 99US-0159285.
PR 14-OCT-1999; 99US-0159329.
PR 14-OCT-1999; 99US-0159330.
PR 14-OCT-1999; 99US-0159331.
PR 14-OCT-1999; 99US-0159637.
PR 14-OCT-1999; 99US-0159638.

```

```

PR 18-OCT-1999; 99US-0159584.
PR 21-OCT-1999; 99US-0160741.
PR 21-OCT-1999; 99US-0160767.
PR 21-OCT-1999; 99US-0160768.
PR 21-OCT-1999; 99US-0160770.
PR 21-OCT-1999; 99US-0160814.
PR 21-OCT-1999; 99US-0160815.
PR 22-OCT-1999; 99US-0160980.
PR 22-OCT-1999; 99US-0160981.
PR 22-OCT-1999; 99US-0160989.
PR 25-OCT-1999; 99US-0161404.
PR 25-OCT-1999; 99US-0161405.
PR 26-OCT-1999; 99US-0161406.
PR 26-OCT-1999; 99US-0161359.
PR 26-OCT-1999; 99US-0161360.
PR 26-OCT-1999; 99US-0161361.
PR 28-OCT-1999; 99US-0161920.
PR 28-OCT-1999; 99US-0161992.
PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

alignment_scores:
    Quality: 13.00
    Ratio: 1.000
    Percent Similarity: 100.000
    Percent Identity: 100.000

alignment_block:
US-09-805-550-2 x AAC44960 ..

Align seg 1/1 to: AAC44960 from: 1 to: 850

245 GlyProAsnAlaAsnProLeuAsnLeuPheProGingly 257
|||||
751 GGTCCAAACGCAATCCATTAAACCGTCCGCCACAGGC 789

seq_name: /SIDS1/gcdata/geneseq/geneseqn-emb1/NA2000.DAT.AAD01231
seq_documentation_block:
ID AAD01231 standard; cDNA; 1702 BP.
XX
AC AAD01231;
XX
DT 04-OCT-2000 (first entry)
XX
DE Maize Rad23 protein #2 encoding cDNA.
XX
KW Rad23; maize; ATCC No: PTA-531; recombinant expression cassette; wheat;
transgenic plant; soybean; sunflower; sorghum; canola; modulator; ss.
XX
OS Zea mays.
XX
XX
Key Location/Qualifiers
FH 106..1222
FT CDS /*tag= a
FT /*product= "Maize Rad23 protein #2"
FT /*note= "Contained in ATCC No: PTA-531"
FT
XX
XX WO200031268-A1.
XX
PD 02-JUN-2000.
XX
PF 12-OCT-1999; 99WO-US24129.
XX
PR 23-NOV-1998; 98US-0109728.
XX
PA (PION-) PIONEER HI-BRED INT INC.
XX
XX Mahajan PB, Tagliani L;
XX
XX WPI; 2000-400078/34.
XX
XX P-PSDB; AAY71459.
XX
PT Isolated nucleic acid encoding maize RAD23 protein is used to modulate

```

PT the levels of polypeptides in plant or in assays for identifying
PT compounds that bind to and/or increase/decrease enzymatic activity of
PT catalytically active polypeptides -
PS
PS Claim 1e; Page 76-78; 82pp; English.
XX
CC The present sequence is the cDNA encoding maize Rad3 protein #2. It is
CC isolated from a Zea mays cell line, B73 callus tissue regenerated five
CC days after transfer of the callus from medium containing auxin to a
CC medium devoid of exogenous auxin. This cDNA is deposited under the ATCC
CC No: PTA-531. Maize Rad3 DNA sequence operably linked to a promoter, can
CC be used to construct a recombinant expression cassette. This expression
CC cassette can be used to generate a dicot or monocot transgenic plant
CC e.g., maize, soybean, sunflower, sorghum, canola, wheat, etc.. It can
CC also be used to modulate the levels of Rad3 polypeptide expression in a
CC plant or in assays to identify compounds, that bind to and/or modulate
CC the enzymatic activity of catalytically active polypeptides.
XX
SQ Sequence 1702 BP; 490 A; 373 C; 432 G; 407 T; 0 other;

alignment_scores:
Quality: 13.00 Length: 13
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:
US-09-805-550-2 x AAD01231 ..

Align seg 1/1 to: AAD01231 from: 1 to: 1702

182 ArgAlaLeuArgAlaAlaTyrAsnAsnProGluArgAla 194
|||||
604 AGGGCTCTCGCTGCGCTTACACACCCCGACGTGCT 642

seq_name: /STDS1/gcgdata/geneseq/geneseq-emb1/NA2001A.DAT:AAK56240

seq_documentation_block:
ID AAK56240 standard; cDNA; 434 BP.
XX
AC AAK56240;
XX
DT 06-NOV-2001 (first entry)
XX
DE Human Immune/haematopoietic antigen encoding cDNA SEQ ID NO:1300.
XX
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
XX
XX cytostatic; gene therapy; vaccine; metastasis; ss.
OS Homo sapiens.
XX
XX WO200157182-A2.
PD
XX
PD 09-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US01354.
XX
XX 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.
PR 24-FEB-2000; 2000US-0184664.
PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
PR 17-MAR-2000; 2000US-0190076.
PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205115.
PR 07-JUN-2000; 2000US-0209467.
PR 28-JUN-2000; 2000US-0214886.
PR 30-JUN-2000; 2000US-0215135.
PR 07-JUL-2000; 2000US-0216647.
PR 07-JUL-2000; 2000US-0216880.
PR 11-JUL-2000; 2000US-0217487.
PR 11-JUL-2000; 2000US-0217496.
PR 14-JUL-2000; 2000US-0218290.

PR 26-JUL-2000; 2000US-0220963.
PR 26-JUL-2000; 2000US-0220964.
PR 14-AUG-2000; 2000US-0224518.
PR 14-AUG-2000; 2000US-0224519.
PR 14-AUG-2000; 2000US-0225213.
PR 14-AUG-2000; 2000US-0225214.
PR 14-AUG-2000; 2000US-0225266.
PR 14-AUG-2000; 2000US-0225267.
PR 14-AUG-2000; 2000US-0225268.
PR 14-AUG-2000; 2000US-0225270.
PR 14-AUG-2000; 2000US-0225447.
PR 14-AUG-2000; 2000US-0225757.
PR 14-AUG-2000; 2000US-0225758.
PR 14-AUG-2000; 2000US-0225759.
PR 18-AUG-2000; 2000US-0226279.
PR 22-AUG-2000; 2000US-0226681.
PR 22-AUG-2000; 2000US-0226686.
PR 22-AUG-2000; 2000US-0227182.
PR 23-AUG-2000; 2000US-0227009.
PR 30-AUG-2000; 2000US-0228924.
PR 01-SEP-2000; 2000US-0229287.
PR 01-SEP-2000; 2000US-0229343.
PR 01-SEP-2000; 2000US-0229344.
PR 01-SEP-2000; 2000US-0229345.
PR 05-SEP-2000; 2000US-0229509.
PR 05-SEP-2000; 2000US-0229513.
PR 06-SEP-2000; 2000US-0230437.
PR 06-SEP-2000; 2000US-0230438.
PR 08-SEP-2000; 2000US-0231242.
PR 08-SEP-2000; 2000US-0231243.
PR 08-SEP-2000; 2000US-0231244.
PR 08-SEP-2000; 2000US-0231414.
PR 08-SEP-2000; 2000US-0231415.
PR 08-SEP-2000; 2000US-0232080.
PR 08-SEP-2000; 2000US-0232081.
PR 12-SEP-2000; 2000US-0231968.
PR 14-SEP-2000; 2000US-0232397.
PR 14-SEP-2000; 2000US-0232398.
PR 14-SEP-2000; 2000US-0232399.
PR 14-SEP-2000; 2000US-0232400.
PR 14-SEP-2000; 2000US-0232401.
PR 14-SEP-2000; 2000US-0233063.
PR 14-SEP-2000; 2000US-0233064.
PR 14-SEP-2000; 2000US-0233065.
PR 21-SEP-2000; 2000US-0234223.
PR 21-SEP-2000; 2000US-0234274.
PR 25-SEP-2000; 2000US-0234597.
PR 25-SEP-2000; 2000US-0234598.
PR 26-SEP-2000; 2000US-0235484.
PR 27-SEP-2000; 2000US-0235834.
PR 27-SEP-2000; 2000US-0235836.
PR 29-SEP-2000; 2000US-0236327.
PR 29-SEP-2000; 2000US-0236367.
PR 29-SEP-2000; 2000US-0236368.
PR 29-SEP-2000; 2000US-0236369.
PR 29-SEP-2000; 2000US-0236370.
PR 02-OCT-2000; 2000US-0236802.
PR 02-OCT-2000; 2000US-0237037.
PR 02-OCT-2000; 2000US-0237038.
PR 02-OCT-2000; 2000US-0237039.
PR 02-OCT-2000; 2000US-0237040.
PR 13-OCT-2000; 2000US-0239935.
PR 13-OCT-2000; 2000US-0239937.
PR 20-OCT-2000; 2000US-0240960.
PR 20-OCT-2000; 2000US-0241221.
PR 20-OCT-2000; 2000US-0241785.
PR 20-OCT-2000; 2000US-0241786.
PR 20-OCT-2000; 2000US-0241787.
PR 20-OCT-2000; 2000US-0241808.
PR 20-OCT-2000; 2000US-0241809.
PR 01-NOV-2000; 2000US-0244826.
PR 08-NOV-2000; 2000US-0244817.
PR 08-NOV-2000; 2000US-0244874.

XX Sequence 311 BP; 103 A; 73 C; 58 G; 76 T; 1 other;
SQ

alignment_scores:

Quality: 9.00 Length: 9
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:

US-09-805-550-2 x AAC20334/rev ..

Align seg 1/1 to reverse of: AAC20334 from: 1 to: 311

334 GlyGlyProGlyGlyAsnIleuGly 342
|||||
116 GGTGGACCTGGGGCAATATTTTGGGG 90

seq_name: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:ABL17109

seq_documentation_block:

ID ABL17109 standard; DNA; 864 BP.

XX
AC ABL17109;

DT 26-MAR-2002 (first entry)

DE Drosophila melanogaster genomic polynucleotide SEQ ID NO 2800.

KW Drosophila; developmental biology; cell signalling; insecticide;

KM pharmaceutical; gene; ds.

OS Drosophila melanogaster.

PN WO200171042-A2.

PD 27-SEP-2001.

PF 23-MAR-2001; 2001WO-US09231.

PR 23-MAR-2000; 2000US-191637P.

PR 11-JUL-2000; 2000US-0614150.

XX (PEKE) PE CORP NY.

PI Venter JC, Adams M, Li PMD, Myers EW;

XX WPI; 2001-656860/75.

PT New isolated nucleic acid detection reagent for detecting 1000 or more
genes from Drosophila and for elucidating cell signalling and cell-cell
interactions -

PS Claim 1; SEQ ID NO 2800; 21pp + Sequence Listing; English.

XX The invention relates to an isolated nucleic acid detection reagent
capable of detecting 1000 or more genes from Drosophila. The invention is
useful in developmental biology and in elucidating cell signalling and
cell-cell interactions in higher eukaryotes for the development of
insecticides, therapeutics and pharmaceutical drugs. The invention
discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA
sequences (ABL01840-ABL16175) and the encoded proteins
(ABBS7737-ABBS72072).
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 864 BP; 228 A; 260 C; 213 G; 163 T; 0 other;
SQ

alignment_scores:

Quality: 9.00 Length: 9
Ratio: 1.000 Gaps: 0

Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:

US-09-805-550-2 x ABL17109 ..

Align seg 1/1 to: ABL17109 from: 1 to: 864

132 AlaAlaProAlaAlaThrValAlaAla 140
|||||
330 GCAGCACCAGCAGCAACAGTTGCTGCA 356

seq_name: /SIDSL/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:ABL25527

seq_documentation_block:

ID ABL25527 standard; DNA; 1464 BP.

XX
AC ABL25527;

DT 26-MAR-2002 (first entry)

DE Drosophila melanogaster genomic polynucleotide SEQ ID NO 28054.

KW Drosophila; developmental biology; cell signalling; insecticide;

KM pharmaceutical; gene; ds.

OS Drosophila melanogaster.

PN WO200171042-A2.

PD 27-SEP-2001.

PF 23-MAR-2001; 2001WO-US09231.

PR 23-MAR-2000; 2000US-191637P.

PR 11-JUL-2000; 2000US-0614150.

XX (PEKE) PE CORP NY.

PI Venter JC, Adams M, Li PMD, Myers EW;

XX WPI; 2001-656860/75.

PT New isolated nucleic acid detection reagent for detecting 1000 or more
genes from Drosophila and for elucidating cell signalling and cell-cell
interactions -

PS Claim 1; SEQ ID NO 28054; 21pp + Sequence Listing; English.

XX The invention relates to an isolated nucleic acid detection reagent
capable of detecting 1000 or more genes from Drosophila. The invention is
useful in developmental biology and in elucidating cell signalling and
cell-cell interactions in higher eukaryotes for the development of
insecticides, therapeutics and pharmaceutical drugs. The invention
discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA
sequences (ABL01840-ABL16175) and the encoded proteins
(ABBS7737-ABBS72072).
CC The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 1464 BP; 332 A; 427 C; 345 G; 360 T; 0 other;
SQ

alignment_scores:

Quality: 9.00 Length: 9
Ratio: 1.000 Gaps: 0
Percent Similarity: 100.000 Percent Identity: 100.000

alignment_block:

US-09-805-550-2 x ABL25527 ..

Align seg 1/1 to: ABL25527 from: 1 to: 1464

99 PTCALALAPROVALALAPROALALA 107
|||||
472 CCGCTGCTCTGCTGCTCGCTGCC 498

seq_name: /SIDSL/gcdata/geneseq/geneseqn-embL/NA2001A.DAT:AAH73004

seq_documentation_block:

ID AAH73004 standard; cDNA: 1536 BP.

AAH73004;

19-SEP-2001 (first entry)

Human cervical cancer marker nucleic acid 4278.

Cervical cancer; cytostatic; pre-malignant condition; gene therapy; ss.

Homo sapiens.

WO200142467-A2.

14-JUN-2001.

08-DEC-2000; 2000WO-US33312.

08-DEC-1999; 99US-0169681.

21-DEC-1999; 99US-0171350.

14-MAR-2000; 2000US-0189315.

12-MAY-2000; 2000US-0203791.

09-JUN-2000; 2000US-0210600.

21-JUL-2000; 2000US-0220114.

(MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.

Schlegel R, Deeds J, Berger A, Zhao X;

WPI: 2001-375006/39.

New isolated nucleic acid for diagnosing and treating cervical cancer

and for assessing and detecting compounds for treating the cancer -

Claim 1; Page 941; 1051pp; English.

The invention relates to novel genes (AAH68727-AAH73863) associated with

cervical cancer with cytosolic activity. The nucleic acids and encoded

polypeptides are useful: to assess if a patient is afflicted with

cervical cancer or has a pre-malignant condition; to monitor the

progression of cervical cancer or a premalignant condition in a patient;

and to select and/or assess the efficacy of a compound or therapy for

inhibiting cervical cancer in a patient. The nucleic acids may also be

useful for gene therapy.

Sequence 1536 BP; 405 A; 506 C; 345 G; 279 T; 1 other;

alignment_scores: Quality: 9.00 Length: 9

Ratio: 1.000 Gaps: 0

Percent Similarity: 100.000 Percent Identity: 100.000

US-09-805-550-2 x AAH73004 ..

Align seg 1/1 to: AAH73004 from: 1 to: 1536

81 SerSerGlyAlaSerThrAlaThrThr 89

|||||

1225 TCCAGTGGGCGCACAGCCACCACC 1251

seq_name: /SIDSL/gcdata/geneseq/geneseqn-embL/NA2001B.DAT:AA564584

seq_documentation_block:

ID AA564584 standard; cDNA: 2307 BP.

XX AA564584;

13-FEB-2002 (first entry)

DNA encoding novel human diagnostic protein #388.

Human; chromosome mapping; gene mapping; gene therapy; forensic;

food supplement; medical imaging; diagnostic; genetic disorder; ss.

Homo sapiens.

WO200175067-A2.

11-OCT-2001.

30-MAR-2001; 2001WO-US08631.

31-MAR-2000; 2000US-0540217.

23-AUG-2000; 2000US-0649167.

(HYSE-) HYSEQ INC.

Dmanac RT, Liu C, Tang YT;

WPI: 2001-639362/73.

P-PSDB; ABG00397.

New isolated polynucleotide and encoded polypeptides, useful in

diagnostics, forensics, gene mapping, identification of mutations

responsible for genetic disorders or other traits and to assess

biodiversity -

Claim 1; SEQ ID No 388; 103pp; English.

The invention relates to isolated polynucleotide (I) and

polypeptide (II) sequences. (I) is useful as hybridisation probes,

polymerase chain reaction (PCR) primers, oligomers, and for chromosome

and gene mapping, and in recombinant production of (II). The

polynucleotides are also used in diagnostics as expressed sequence tags

for identifying expressed genes. (I) is useful in gene therapy techniques

to restore normal activity of (II) or to treat disease states involving

(II). (II) is useful for generating antibodies against it, detecting or

quantitating a polypeptide in tissue, as molecular weight markers and as

a food supplement. (II) and its binding partners are useful in medical

imaging of sites expressing (II). (I) and (II) are useful for treating

disorders involving aberrant protein expression or biological activity.

The polypeptide and polynucleotide sequences have applications in

diagnostics, forensics, gene mapping, identification of mutations

responsible for genetic disorders or other traits to assess biodiversity

and to produce other types of data and products dependent on DNA and

amino acid sequences. AA564197-AA594564 represent novel human

CC Note: The sequence data for this patent did not appear in the printed

CC specification, but was obtained in electronic format directly from WIPO

at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 2307 BP; 406 A; 587 C; 752 G; 562 T; 0 other;

alignment_scores: Quality: 9.00 Length: 9

Ratio: 1.000 Gaps: 0

Percent Similarity: 100.000 Percent Identity: 100.000

US-09-805-550-2 x AA564584/rev ..

Align seg 1/1 to reverse of: AA564584 from: 1 to: 2307

81 SerSerGlyAlaSerThrAlaThrThr 89

|||||

1197 TCCAGTGGGCGCACAGCCACCACC 1171

seq_name: /STD1/gcgdata/geneseq/geneseqn-emb1/NA2001B.DAT:AAS94336

seq_documentation_block:

ID AAS94336 standard; cDNA; 2633 BP.

AC AAS94336;

DT 13-FEB-2002 (first entry)

DE DNA encoding novel human diagnostic protein #30140.

KW Human; chromosome mapping; gene mapping; gene therapy; forensic;
KW food supplement; medical imaging; diagnostic; genetic disorder; ss.

OS Homo sapiens.

PN MO200175067-A2.

PD 11-OCT-2001.

PF 30-MAR-2001; 2001WO-US08631.

PR 31-MAR-2000; 2000US-0540217.

PR 23-AUG-2000; 2000US-0649167.

PA (HYSE-) HYSEQ INC.

PI Drmanac RT, Liu C, Tang YT;

DR WPI: 2001-639362/73.

DR P-PSDB; ABG30149.

PT New isolated polynucleotide and encoded polypeptides, useful in
PT diagnostics, forensics, gene mapping, identification of mutations
PT responsible for genetic disorders or other traits and to assess
PT biodiversity

PS Claim 1: SEQ ID No 30140; 103pp; English.

CC The invention relates to isolated polynucleotide (I) and
CC polypeptide (II) sequences. (I) is useful as hybridisation probes,
CC polymerase chain reaction (PCR) primers, oligomers, and for chromosome
CC and gene mapping, and in recombinant production of (II). The
CC polynucleotides are also used in diagnostics as expressed sequence tags
CC for identifying expressed genes. (I) is useful in gene therapy techniques
CC to restore normal activity of (II) or to treat disease states involving
CC (II). (II) is useful for generating antibodies against it, detecting or
CC quantitating a polypeptide in tissue, as molecular weight markers and as
CC a food supplement. (II) and its binding partners are useful in medical
CC imaging of sites expressing (II). (I) and (II) are useful for treating
CC disorders involving aberrant protein expression or biological activity.
CC The polypeptide and polynucleotide sequences have applications in
CC diagnostics, forensics, gene mapping, identification of mutations
CC responsible for genetic disorders or other traits to assess biodiversity
CC and to produce other types of data and products dependent on DNA and
CC amino acid sequences. AAS64197-AAS94564 represent novel human
CC diagnostic coding sequences of the invention.
CC Note: The sequence data for this patent did not appear in the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.

XX Sequence 2633 BP; 439 A; 713 C; 825 G; 656 T; 0 other;

alignment_scores:

Quality:	9.00	Length:	9
Ratio:	1.000	Gaps:	0
Percent Similarity:	100.000	Percent Identity:	100.000

alignment_block:

US-09-805-550-2 x AAS94336/rev ..

Align seq 1/1 to reverse of: AAS94336 from: 1 to: 2633

81 SerSerGlyAlaSerThrAlaThrThr 89
|||||
1523 TCCAGTGGGGCCACGACGACGACCC 1497
